



**Fatma Nazli
DONMEZER**

**Home Country
Turkey**

**Degree
PhD in Mechanical
Engineering**

**Expertise
Mechanical
Engineering**

**Research Focus
Spectrally Selective
Heating of Nano-Sized
Particles and
Agglomerates**

**Host University
Georgia Institute of
Technology,
United States**

**Fellowship Awarded
2009**

Fatma Nazli Donmezer was born and raised in Ankara, Turkey. She has one sister. While in high school she became interested in science and teaching as well as in her current hobby, learning French language and culture.

After graduating in 2007 with her BSc in science from Middle East Technical University in Ankara, she began studying for her MSc in mechanical engineering with a specialization in thermo-fluid sciences, especially spectrally selective heating of nano-sized particles and agglomerates.

When she completes her graduate degree, Fatma intends to continue working toward a PhD at Georgia Institute of Technology in Atlanta, United States.

Fatma's doctoral research will focus on radiative properties of nano-particles, which is a specialization of the Nanoscale Thermal Radiation Laboratory at Georgia Tech. Because many behaviors of nano-particles are different from their bulk behaviors, they may be useful in engineering applications and may be important in finding solutions for many of today's technological challenges that cannot be solved by conventional methods, or by classical material properties.

Fatma is attracted to radiation studies related to thermal sciences, a cutting-edge subject today, and to the strong interdisciplinary nature of her research area, one that binds chemistry, physics and engineering. Fatma feels that many scientific subjects today have no strict borders – many disciplines can benefit from knowledge gained by one another. She believes that in the future scientists and engineers seeking solutions to technological problems must be open to interdisciplinary perspectives.

Partly because gender roles within science and engineering are changing in Turkey today, Fatma intends to pursue an academic career teaching at the Middle East Technical University in Ankara.